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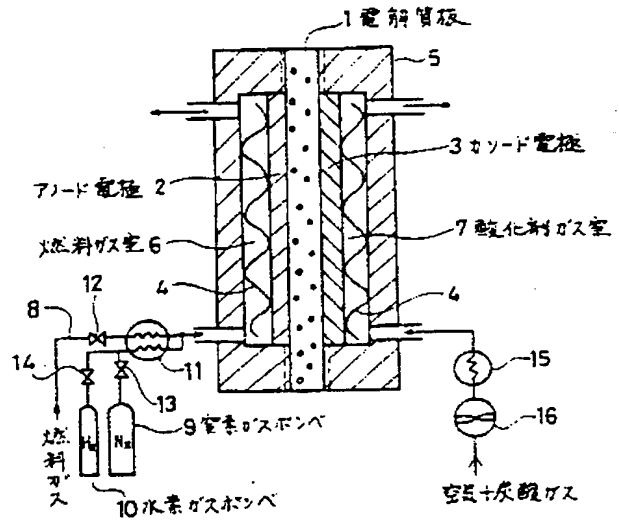
APPLICATION DATE : 28-05-87
APPLICATION NUMBER : 62133007

APPLICANT : FUJI ELECTRIC CO LTD;

INVENTOR : NAKANISHI TSUNEO;

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TITLE : OPERATING METHOD FOR MOLTEN CARBONATE FUEL CELL



ABSTRACT : PURPOSE: To prevent the deterioration of an anode by supplying a protection gas prepared by mixing a small quantity of hydrogen gas to inactive gas to the anode only when a cell is started or stopped except for normal operation.

CONSTITUTION: When a cell is started, a valve 12 is closed and valves 13, 14 are opened to supply a protection gas prepared by mixing hydrogen gas with nitrogen gas to a fuel gas chamber 6 after heating. A small amount of oxygen in a commercial inactive gas or oxygen in the air penetrated from the outside of the cell is reduced by hydrogen in the protection gas to prevent the oxidation of an anode 2. When the temperature of the cell is increased to a specified temperature, the valves 13, 14 are closed and the valve 12 is opened and fuel gas is supplied to the gas chamber 6 to perform power generation. When the cell is stopped, valves are switched in the same way as starting, and the protection gas is supplied. The oxidation of the anode is prevented and the performance and life of the cell are increased.

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